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**(WO/2002/014322) PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO \$g(b)\$-\$g(b)\$ CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS**

Biblio. Data

Description

Claims

National Phase

Notices

Documents

Latest bibliographic data on file with the International Bureau

**Publication Number:** WO/2002/014322

**International Application No.:** PCT/JP2001/006832

**Publication Date:** 21.02.2002

**International Filing Date:** 08.08.2001

**Int. Class.:** C07D 487/22 (2006.01)

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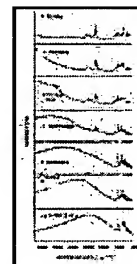
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**Priority Data:** 2000-243699 11.08.2000 JP

**Title:** PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO \$g(b)\$-\$g(b)\$ CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS

**Abstract:** A porphyrin ring-fusion polymer which consists of two or more Zn<sup>II</sup>-porphyrin rings fused in a single direction and in which any two porphyrin rings adjacent to each other are fused by three covalent bonds, that is, one meso-meso carbon bond (i.e., one bond between meso-position carbon atoms) and two \$g(b)\$-\$g(b)\$ carbon bonds (i.e., two bonds between \$g(b)\$-position carbon atoms adjacent to the meso-position carbon atoms); a process for preparing the porphyrin ring-fusion polymer regioselectively by conducting the fusion reaction in an aromatic hydrocarbon solvent in the presence of a quinone and a Lewis acid containing a rare earth element under reflux; and fused-ring porphyrin compounds obtained by subjecting the porphyrin ring-fusion polymer to demetallization or replacement of the Zn atoms by other metal atoms.



**Designated** CA, IL, US.

**States:** European Patent Office (EPO) (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

**Publication Language:**

Japanese (JA)

**Filing Language:**

Japanese (JA)